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1 [Down with Emacs Lisp: dynamic scope analysis](#)



Matthias Neubauer, Michael Sperber

 October 2001 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN international conference on Functional programming ICFP '01**, Volume 36 Issue 10

Publisher: ACM Press

 Full text available: [pdf\(216.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is possible to translate code written in Emacs Lisp or another Lisp dialect which uses dynamic scoping to a more modern programming language with lexical scoping while largely preserving structure and readability of the code. The biggest obstacle to such an idiomatic translation from Emacs Lisp is the translation of dynamic binding into suitable instances of lexical binding: Many binding constructs in real programs in fact exhibit identical behavior under both dynamic and lexical binding. An ...



2 [Implicit parameters: dynamic scoping with static types](#)



Jeffrey R. Lewis, John Launchbury, Erik Meijer, Mark B. Shields

 January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '00**

Publisher: ACM Press

 Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper introduces a language feature, called implicit parameters, that provides dynamically scoped variables within a statically-typed Hindley-Milner framework. Implicit parameters are lexically distinct from regular identifiers, and are bound by a special with construct whose scope is dynamic, rather than static as with let. Implicit parameters are treated by the type system as parameters that are not explicitly declared, but are inferred from their use. We ...



3 [On dynamically-scoped crosscutting mechanisms](#)



Eric Tanter

 February 2007 **ACM SIGPLAN Notices**, Volume 42 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(280.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many crosscutting mechanisms proposed in the literature offer means to restrain aspects to some dynamically-defined scopes. Dynamically-scoped mechanisms are particularly interesting because of the flexibility, expressiveness, and control they give over structural

